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प्रश्नपुस्तिका क्रमांक

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चाळणी परीक्षा / SCREENING TEST

एकूण गुण : 150

### सूचना

(1) सदर प्रश्नपुस्तिकेत 150 अनिवार्य प्रश्न आहेत. उमेदवारांनी प्रश्नांची उत्तरे लिहिण्यास सुरुवात करण्यापूर्वी या प्रश्नपुस्तिकेत सर्व प्रश्न आहेत किंवा नाहीत याची खात्री करून घ्यावी. असा तसेच अन्य काही दोष आढळल्यास ही प्रश्नपुस्तिका समवेक्षकांकडून लगेच बदलून घ्यावी.

परीक्षा-क्रमांक									

केंद्राची संकेताक्षरे

शेवटचा अंक

(2) आपला परीक्षा-क्रमांक ह्या चौकोनांत न विसरता बॉलपेनने लिहावा.

(3) वर छापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर विशिष्ट जागी उत्तरपत्रिकेवरील सूचनेप्रमाणे न विसरता नमूद करावा.

(4) या प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाला 4 पर्यायी उत्तरे सुचविली असून त्यांना 1, 2, 3 आणि 4 असे क्रमांक दिलेले आहेत. त्या चार उत्तरांपैकी सर्वात योग्य उत्तराचा क्रमांक उत्तरपत्रिकेवरील सूचनेप्रमाणे तुमच्या उत्तरपत्रिकेवर नमूद करावा. अशा प्रकारे उत्तरपत्रिकेवर उत्तरक्रमांक नमूद करताना तो संबंधित प्रश्नक्रमांकासमोर छायांकित करून दर्शविला जाईल याची काळजी घ्यावी. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.

(5) सर्व प्रश्नांना समान गुण आहेत. यास्तव सर्व प्रश्नांची उत्तरे द्यावीत. घाईमुळे चुका होणार नाहीत याची दक्षता घेऊनच शक्य तितक्या वेगाने प्रश्न सोडवावेत. क्रमाने प्रश्न सोडविणे श्रेयस्कर आहे पण एखादा प्रश्न कठीण वाटल्यास त्यावर वेळ न घालविता पुढील प्रश्नाकडे वळावे. अशा प्रकारे शेवटच्या प्रश्नापर्यंत पोहोचल्यानंतर वेळ शिल्लक राहिल्यास कठीण म्हणून वगळलेल्या प्रश्नांकडे परतणे सोईस्कर ठरेल.

(6) उत्तरपत्रिकेत एकदा नमूद केलेले उत्तर खोडता येणार नाही. नमूद केलेले उत्तर खोडून नव्याने उत्तर दिल्यास ते तपासले जाणार नाही.

(7) प्रस्तुत परीक्षेच्या उत्तरपत्रिकांचे मूल्यांकन करताना उमेदवारांच्या उत्तरपत्रिकेतील योग्य उत्तरांनाच गुण दिले जातील. तसेच "उमेदवाराने वस्तुनिष्ठ बहुपर्यायी स्वरूपाच्या प्रश्नांची अचूक उत्तरे उत्तरपत्रिकेत नमूद करावीत. अन्यथा त्यांच्या उत्तरपत्रिकेत सोडविलेल्या प्रत्येक चार चुकीच्या उत्तरांसाठी एका प्रश्नाचे गुण वजा करण्यात येतील".

### ताकीद

ह्या प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपेपर्यंत ही प्रश्नपुस्तिका आयोगाची मालमत्ता असून ती परीक्षाकक्षात उमेदवाराला परीक्षेसाठी वापरण्यास देण्यात येत आहे. ही वेळ संपेपर्यंत सदर प्रश्नपुस्तिकेची प्रत/प्रती, किंवा सदर प्रश्नपुस्तिकेतील काही आशय कोणत्याही स्वरूपात प्रत्यक्ष वा अप्रत्यक्षपणे कोणत्याही व्यक्तीस पुरविणे, तसेच प्रसिद्ध करणे हा गुन्हा असून अशी कृती करणाऱ्या व्यक्तीवर शासनाने जारी केलेल्या "परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचा अधिनियम-82" यातील तरतुदीनुसार तसेच प्रचलित कायद्याच्या तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.

तसेच ह्या प्रश्नपत्रिकेसाठी विहित केलेली वेळ संपण्याआधी ही प्रश्नपुस्तिका अनधिकृतपणे बाळगणे हा सुद्धा गुन्हा असून तसे करणारी व्यक्ती आयोगाच्या कर्मचारीवृंदापैकी, तसेच परीक्षेच्या पर्यवेक्षकीयवृंदापैकी असली तरीही अशा व्यक्तीविरुद्ध उक्त अधिनियमानुसार कारवाई करण्यात येईल व दोषी व्यक्ती शिक्षेस पात्र होईल.

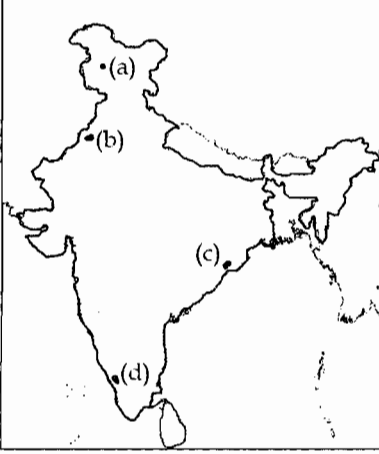
पुढील सूचना प्रश्नपुस्तिकेच्या अंतिम पृष्ठावर पहा

पर्यवेक्षकांच्या सूचनेविना हे सील उघडू नये

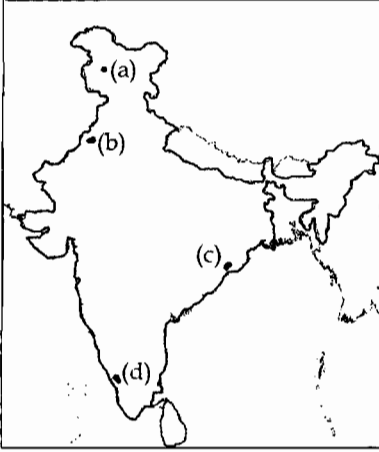
SEAL

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

1. भारताच्या नकाशामध्ये खाली दिलेल्या सरोवरांचे भौगोलिक स्थान कोणता विकल्प अधिक सुयोग्यरीत्या दर्शवितो ?
- (1) (a) सांभर (b) वुलर (c) वेंबनाड (d) चिल्का  
 (2) (a) वुलर (b) सांभर (c) चिल्का (d) वेंबनाड  
 (3) (a) चिल्का (b) वुलर (c) सांभर (d) वेंबनाड  
 (4) (a) चिल्का (b) सांभर (c) वुलर (d) वेंबनाड



In the given map of India, which of the following options properly depicts the geographical location of the lakes mentioned below ?



- (1) (a) Sambhar (b) Woolar (c) Vembanad (d) Chilka  
 (2) (a) Woolar (b) Sambhar (c) Chilka (d) Vembanad  
 (3) (a) Chilka (b) Woolar (c) Sambhar (d) Vembanad  
 (4) (a) Chilka (b) Sambhar (c) Woolar (d) Vembanad

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

P.T.O.

2. खालीलपैकी कोणत्या राज्याची किनारपट्टी ही 'कोरोमांडेल' या नावाने ओळखली जाते ?

- (1) गोवा (2) तामिळनाडु (3) पश्चिम बंगाल (4) केरळ

In which state coastal area is known as "Coromandel" ?

- (1) Goa (2) Tamil Nadu (3) West Bengal (4) Keral

3. महाराष्ट्राच्या सह्याद्री पर्वताच्या पूर्वेकडील प्रदेश हा अनेक डोंगररांगानी व्यापलेला आहे. त्या डोंगररांगामधील चुकीची जोडी ओळखा.

- (1) सातमाळा - अजिंठ्याचे डोंगर (2) हरिश्चंद्र - बालाघाटाचे डोंगर  
(3) शंभू - महादेवाचे डोंगर (4) विंध्य - मैकल डोंगर

There are various hill ranges in Maharashtra to the east of Sahyadri. Which among the following is the incorrect pair of hill range ?

- (1) Satmala - Ajintha Hill Range (2) Harischandra - Balaghat Hill Range  
(3) Shambhu - Mahadeo Hill Range (4) Vindhya - Maikal Hill Range

4. भरपूर प्रमाणात पाऊस, उच्च तापमान, वाळूमिश्रित जमीन, दमट हवामान हे प्रामुख्याने \_\_\_\_\_ च्या पिकासाठी अनुकूल असतात.

- (1) ऊस (2) कापूस (3) नारळ (4) केळी

High rainfall, high temperature, sand mixed soil and humid climate are characteristic of \_\_\_\_\_ crop.

- (1) Sugar cane (2) Cotton (3) Coconut (4) Banana

5. महाराष्ट्रात दर हेक्टरी पिकांचे उत्पादन कमी का आहे ?

- (1) महाराष्ट्रातील मृदा नापीक आहे.  
(2) पिकांना पुरेसा पाणी पुरवठा उपलब्ध होत नाही.  
(3) शेतकऱ्यांना शेतीसाठी पुरेसे शेतमजूर उपलब्ध होत नाहीत.  
(4) किटकनाशके व जंतुनाशके यांच्या वापरामुळे पिकांची हानी होते.

Why is per hectare production of crops less in Maharashtra ?

- (1) The soil of Maharashtra is infertile.  
(2) Insufficient water supply.  
(3) Sufficient agricultural labour is not available for the farmers.  
(4) Crops are destroyed by using insecticide and pesticide.

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

6. जिल्हा परिषदेच्या स्थायी समितीच्या संदर्भात खालीलपैकी कोणते वाक्य बरोबर आहे ?

- (1) जिल्हा परिषदेचा अध्यक्ष हा स्थायी समितीचा पदसिद्ध अध्यक्ष असतो.
- (2) विषय समित्यांचे अध्यक्ष स्थायी समितीचे सदस्य नसतात.
- (3) जिल्हा परिषदेचे सदस्य स्थायी समितीचे सहा सदस्य निवडतात.
- (4) स्थायी समिती त्या क्षेत्रातील कार्याचे विशेष ज्ञान असलेल्या एक सदस्याला स्वीकृत म्हणून निवडते.

Which of the following statements relating to the Standing Committee of the Zilla Parishad is correct ?

- (1) The President of the Zilla Parishad is the ex-officio Chairperson of the Standing Committee.
- (2) The Chairpersons of the Subject Committees are not the members of the Standing Committee.
- (3) The members of the Zilla Parishad select six members of the Standing Committee.
- (4) The Standing Committee Co-opts one member who has special knowledge of the area.

7. महाराष्ट्र विधानसभा सभापतीची यादी कालावधीनुसार म्हणजे प्रथम जे सभापती झाले ते प्रथम व सर्वात शेवटी जे झाले ते शेवटी अश्या क्रमाने लावा.

- |                        |                        |
|------------------------|------------------------|
| (अ) अरुणलाल गुजराथी    | (ब) दिलीप वळसे पाटील   |
| (क) बाबासाहेब कुपेकर   | (ड) दत्ताजी नलावडे     |
| (1) (अ), (ड), (ब), (क) | (2) (क), (ड), (ब), (अ) |
| (3) (ड), (अ), (क), (ब) | (4) (ड), (ब), (अ), (क) |

Arrange the list of the speakers of the Maharashtra Vidhan Sabha in the order in which they held office i.e. the one who held it first to be the first and who held it last to come at the end.

- |                        |                        |
|------------------------|------------------------|
| (A) Arunlal Gujarathi  | (B) Dilip Walse Patil  |
| (C) Babasaheb Kupekar  | (D) Dattaji Nalawade   |
| (1) (A), (D), (B), (C) | (2) (C), (D), (B), (A) |
| (3) (D), (A), (C), (B) | (4) (D), (B), (A), (C) |

8. घटनेतील कोणत्या कलमानुसार महानगरपालिकेच्या निवडणुकीची व्याख्या केली आहे ?

- |                        |                      |
|------------------------|----------------------|
| (1) कलम 243 (अ)        | (2) कलम 243 (झेड्.अ) |
| (3) कलम 243 (झेड्.बी.) | (4) कलम 243 (पी.)    |

Which Constitutional Article defines Elections of Municipalities ?

- |                      |                      |
|----------------------|----------------------|
| (1) Article 243 (A)  | (2) Article 243 (ZA) |
| (3) Article 243 (ZB) | (4) Article 243 (P)  |

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

P.T.O.

9. ग्रामसभेच्या बाबतीत खालीलपैकी कोणते वाक्य बरोबर आहे ?  
 (अ) 74 व्या घटनादुरुस्तीने ग्रामसभेला महत्वाचे स्थान प्राप्त झाले.  
 (ब) ही गावकऱ्यांची सामान्य संघटना असून लोकशाहीचा मूलभूत घटक आहे.  
 (क) ग्रामसभेच्या वर्षातून किमान दोन बैठका बोलावणे सरपंचावर बंधनकारक आहे.  
 योग्य पर्याय निवडा -

- (1) फक्त (अ) (2) (अ) आणि (ब) (3) फक्त (ब) (4) (ब) आणि (क)

Which of the following statements about the Gramsabha given below is/are correct ?

- (A) The 74th Constitutional Amendment accorded great significance to the Gram Sabha.  
 (B) It is the general body of the villagers and the fundamental unit of democracy.  
 (C) It is mandatory for the Sarpanch to call at least two meetings of the Gram Sabha in a year.

Select correct code :

- (1) Only (A) (2) (A) and (B) (3) Only (B) (4) (B) and (C)

10. सर्वोच्च न्यायालयाच्या कोणत्या खटल्यातील निकालाचा थेट परिणाम हा केंद्र-राज्य संबंधावर झाला आहे ?

- (1) केशवानंद भारती खटला (2) विशाखा खटला  
 (3) एस्.आर. बोम्मई खटला (4) इंदिरा सॉहनी खटला

Which of the following cases of the Supreme Court of India has had a direct bearing on the centre-state relations ?

- (1) Keshvanand Bharti Case (2) Vishakha Case  
 (3) S.R. Bommai Case (4) Indira Sawhney Case

11. महाराष्ट्र राज्यात सर्वात जास्त ऊर्जा कोणत्या स्रोतापासून मिळवली जाते ?

- (1) कोळसा (2) अणु ऊर्जा (3) जलविद्युत (4) सौर ऊर्जा

From which source is maximum energy obtained in Maharashtra ?

- (1) Coal (2) Atomic Energy (3) Hydroelectricity (4) Solar Energy

12. 'हुडको' खालीलपैकी कोणती सेवा पुरविण्याचा उद्देश ठेवते ?

- (a) नागरी विकास  
 (b) ग्रामीण विकास  
 (c) गृहनिर्माण व नागरी विकासासाठी वित्तीय कर्ज

योग्य विधान कोणते ?

- (1) फक्त (a) (2) फक्त (b) (3) फक्त (c) (4) (a) आणि (b)

'HUDCO' aims at providing :

- (a) Urban development  
 (b) Rural development  
 (c) Loan finance for housing and urban development

Which is the correct statement ?

- (1) (a) Only (2) (b) Only (3) (c) Only (4) (a) and (b)

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

13. मानवाच्या शरिरातील कॅन्सर (कर्करोग) च्या पेशी मारण्यासाठी \_\_\_\_\_ विकिरणाचा उपयोग केला जातो.

- (1) अल्फा (2) बीटा (3) गॅमा (4) इलेक्ट्रॉन

To kill the Cancer cells in human body \_\_\_\_\_ radiation is used.

- (1) Alpha (2) Beta (3) Gamma (4) Electron

14. आंतरराष्ट्रीय विज्ञान ऑलम्पिक स्पर्धेचे प्रशिक्षण भारतातील विद्यार्थ्यांकरिता \_\_\_\_\_ या संस्थेमार्फत दिले जाते.

- (1) भाभा अणु संशोधन केंद्र (2) होमी भाभा विज्ञान शिक्षण केंद्र  
(3) मराठी विज्ञान परिषद (4) पुणे विद्यापीठ, पुणे

Training for "International Science Olympiad Competition" to Indian students is imparted by \_\_\_\_\_.

- (1) Bhabha Atomic Research Centre (2) Homi Bhabha Centre for Science education  
(3) Marathi Vidnyan Parishad (4) Pune University Pune

15. जगातील अतिशय वाईट असा अणुभट्टी अपघात 26 एप्रिल 1986 रोजी \_\_\_\_\_ येथे घडला.

- (1) नागासाकी (2) हिरोशिमा (3) चेर्नोबिल (4) बेलारस

The World's worst atomic reactor mishap occurred at \_\_\_\_\_ on 26th April 1986.

- (1) Nagasaki (2) Hiroshima (3) Chernobyl (4) Belarus

16. महाराष्ट्र शासनाच्या "राजीव गांधी विज्ञान व तंत्रज्ञान कक्ष" या संस्थेचे अध्यक्ष सध्या कोण आहेत ?

- (1) राहुल गांधी (2) सुप्रिया सुळे  
(3) डॉ. अनिल काकोडकर (4) डॉ. वसंतराव गोवारीकर

Who is the present Chairman of the "Rajiv Gandhi Science And Technology Cell" of Maharashtra Government ?

- (1) Rahul Gandhi (2) Supriya Sule  
(3) Dr. Anil Kakodkar (4) Dr. Vasant Rao Gowarikar

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

P.T.O.

17. 'रक्ताचे अभिसरण हृदय व वाहिन्यांमधून कायम होत असते', हे प्रथम \_\_\_\_\_ यांनी सप्रयोग सिद्ध केले.

- |                           |                   |
|---------------------------|-------------------|
| (1) लुईस पाश्चर           | (2) विल्यम हार्वे |
| (3) अँटोनी व्हॅन लिवेनहॉक | (4) लॅव्होसिएर    |

\_\_\_\_\_ was the first to demonstrate that blood circulates constantly through the heart and vessels.

- |                            |                    |
|----------------------------|--------------------|
| (1) Louis Pastuer          | (2) William Harvey |
| (3) Antoni Van Leeuwenhoek | (4) Lavoisier      |

18. आवाजाची तीव्रता मोजण्याकरिता \_\_\_\_\_ हे एकक वापरतात.

- |              |               |          |             |
|--------------|---------------|----------|-------------|
| (1) अँम्पियर | (2) व्होल्टेज | (3) मिटर | (4) डेसिबेल |
|--------------|---------------|----------|-------------|

The unit for measurement of intensity of sound is \_\_\_\_\_.

- |            |             |           |             |
|------------|-------------|-----------|-------------|
| (1) ampere | (2) voltage | (3) metre | (4) decibel |
|------------|-------------|-----------|-------------|

19. चार्लेस डार्विन यांनी प्रथम \_\_\_\_\_ चे संशोधन केले होते.

- (1) पेशींमधील नैसर्गिक जैविक क्रिया
- (2) पेशींमध्ये नैसर्गिकता काळानुरूप होणारे बदल
- (3) नवीन पेशींची निर्माती
- (4) वरील सर्व

Charles Darwin discovered \_\_\_\_\_.

- (1) A natural biological process in species.
- (2) A natural selection that could account for changes in species overtime.
- (3) Formation of new species
- (4) All of the above

20. जागतिक उर्जेच्या आवश्यकतेची जवळजवळ 80% गरज कोणत्या प्रकारच्या स्रोतांकडून भागविली जाते ?

- |                                |                                |
|--------------------------------|--------------------------------|
| (1) 'फॉसिल' इंधन               | (2) जल-शक्ति                   |
| (3) आप्त्विक ऊर्जा व सौर ऊर्जा | (4) शेण व वनस्पतीजन्य उत्सर्जन |

Nearly 80% of the world energy requirement is fulfilled by which of the following types of sources ?

- |                              |                               |
|------------------------------|-------------------------------|
| (1) Fossil fuels             | (2) Hydro Power               |
| (3) Nuclear and Solar Energy | (4) Dung and Vegetation Waste |

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK



21. खालीलपैकी कोणते घटक 'परकीय विनिमय निधी' मध्ये समाविष्ट केले जातात ?

- (1) सोने, एस.डी.आर, परकीय चलनसाठा
- (2)  $M_1, M_2, M_3, M_4$
- (3) परकीय विनिमय बँकेकडील रक्कम
- (4) परकीय व्यापाराला बँकांनी दिलेली कर्जे

Which factors are included in "foreign exchange reserve" ?

- (1) Gold, SDR's, Foreign currency reserve
- (2)  $M_1, M_2, M_3, M_4$
- (3) Money with foreign exchange banks
- (4) Bank loans which were given to foreign trade.

22. भारताच्या दारिद्र्य निर्मुलनाच्या कार्यक्रमांमध्ये, खालीलपैकी कोणत्या उद्दिष्टांवर प्रामुख्याने लक्ष देण्यात आले आहे ?

- (1) ग्रामीण विकास, स्वयंरोजगार व अन्नधान्य सुरक्षा
- (2) नागरी विकास व सीमा सुरक्षा
- (3) भ्रष्टाचाराचे निर्मूलन
- (4) खाजगीकरण व जागतिकीकरण

What is the prime target of the poverty eradication programme in India ?

- (1) Rural development, self-employment and food security
- (2) Urban development and border security
- (3) Eradication of corruption
- (4) Privatisation and Globalisation

23. भारतातील राज्य सरकारच्या कर्ज देयकात खालीलपैकी कोणते कर्ज, समाविष्ट नसते ?

- |                            |                                  |
|----------------------------|----------------------------------|
| (1) बाजार कर्जे            | (2) बँक कर्जे                    |
| (3) रिझर्व्ह बँकेकडील कर्ज | (4) जागतिक बँकेकडून घेतलेले कर्ज |

Debt obligation of the state governments in India do not include ?

- |                    |                           |
|--------------------|---------------------------|
| (1) Market loans   | (2) Loans from banks      |
| (3) Loans from RBI | (4) Loans from World Bank |

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK



28. पितक्रांती कशाशी संबंधित आहे ?

- (1) चणा (2) सोने (3) सूर्यफूल (4) तेलबिया

What is yellow revolution associated with ?

- (1) Gram (2) Gold (3) Sunflower (4) Oilseeds

29. बँक ऑफ अमेरिकेच्या संचालकपदी कोणत्या भारतीय व्यक्तीची नेमणूक करण्यात आली ?

- (1) मॉंटॅकसींग अहलूवालीया (2) मुकेश अंबानी  
(3) जे.आर.डी. टाटा (4) पी. चिदंबरम

Which Indian personality has been appointed as the Director of Bank of America ?

- (1) Monteksing Ahluwalia (2) Mukesh Ambani  
(3) J.R.D. Tata (4) P. Chidambaram

30. 'अर्थ अवर' हे अभियान कोणी सुरु केले ?

- (1) वर्ल्ड वाईड फंड फॉर नेचर (2) जागतिक आरोग्य संघटना  
(3) आंतरराष्ट्रीय नाणेनिधी (4) ग्रीन पीस

Who started the 'Earth hour' movement ?

- (1) World Wide Fund for Nature (2) World Health Organisation  
(3) International Monetary Fund (4) Green Peace

31. महाराष्ट्र शासनाने 2011 - 12 हे वर्ष \_\_\_\_\_ म्हणून घोषित केले आहे.

- (1) अन्न सुरक्षा वर्ष (2) वन्य जीव संरक्षण वर्ष  
(3) पर्यटन वर्ष (4) साक्षरता वर्ष

The Government of Maharashtra has declared the year 2011 - 12 as the \_\_\_\_\_.

- (1) Food Security year (2) Wildlife Protection year  
(3) Tourism year (4) Literacy year

32. देशातील पहिले स्पाईस पार्क कुठे आहे ?

- (1) केरळ (2) राजस्थान (3) महाराष्ट्र (4) उत्तर प्रदेश

Where is the first spice park of the country located ?

- (1) Kerala (2) Rajasthan (3) Maharashtra (4) Uttar Pradesh

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

33. भारतामध्ये आजपर्यंत 1952, 1963, 1973 आणि \_\_\_\_\_ असे 4 वेळ मतदारसंघ पुनर्रचना आयोग स्थापन झाले.

- (1) 1983 (2) 1993 (3) 2002 (4) 2010

The Constituency Reconstruction Commission has been formed four times i.e. in 1952, 1963, 1973 and \_\_\_\_\_ in India.

- (1) 1983 (2) 1993 (3) 2002 (4) 2010

34. भारत सरकारने सार्वजनिक आरोग्यासंबंधी कोणते दोन कायदे पारित केले आहेत ?

- (अ) हेल्थ फॉर पूअर ॲक्ट (ब) पब्लिक हेल्थ ॲक्ट  
(क) हेल्थ फॉर ऑल ॲक्ट (ड) क्लिनिकल एस्टॅब्लिशमेंट ॲक्ट

पर्यायी उत्तरे :

- (1) (ब) आणि (ड) (2) (अ) आणि (ड) (3) (ब) आणि (क) (4) (क) आणि (ड)

Which two Acts have been enacted by the Government of India relating to Public Health ?

- (a) Health for Poor Act (b) Public Health Act  
(c) Health For All Act (d) Clinical Establishment Act

- (1) (b) and (d) (2) (a) and (d) (3) (b) and (c) (4) (c) and (d)

35. खालीलपैकी कोणती राज्य शासनाची ग्रामविकास योजना आहे ?

- (1) रमाई आवास योजना  
(2) बायोगॅस  
(3) सुवर्ण जयंती ग्राम स्वरोजगार योजना  
(4) इंदिरा आवास योजना

Which of the following is the rural development scheme of the state government ?

- (1) Ramai Awas Yojana  
(2) Biogas  
(3) Swarna Jayanti Gram Swarozgar Yojana  
(4) Indira Awas Yojana

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

36. खालीलपैकी कोणत्या घटनादुरुस्तीने छोट्या शहरांसाठी नगरपालिका व मोठ्या शहरासाठी महानगरपालिकेची तरतूद करण्यात आली ?

- (1) 71 वी (9 अ)      (2) 72 वी (9 अ)      (3) 73 वी (9 अ)      (4) 74 वी (9 अ)

Which of the following amendments provided for Municipal Council for small cities and Municipal Corporation for metropolitan cities ?

- (1) 71<sup>st</sup> (9 a)      (2) 72<sup>nd</sup> (9 a)      (3) 73<sup>rd</sup> (9 a)      (4) 74<sup>th</sup> (9 a)

37. जानेवारी 2012 पासून सिंगल ब्रँड रिटेल क्षेत्रात किती टक्के परकीय गुंतवणुकीला मान्यता मिळाली ?

- (1) 75%      (2) 50%      (3) 100%      (4) 30%

How much foreign investment has been approved in single brand retail field since January 2012 ?

- (1) 75%      (2) 50%      (3) 100%      (4) 30%

38. ग्रामपंचायतीकडे जमा होणाऱ्या करांचे व फी चे उत्पन्न \_\_\_\_\_ मध्ये जमा होते.

- (1) तालुका ट्रेझरी      (2) ग्रामनिधी  
(3) जिल्हा बँक      (4) यापैकी नाही

The Taxes and Fees collected by grampanchayat are deposited in \_\_\_\_\_.

- (1) Tahasil Treasury      (2) Gram Nidhi  
(3) District Bank      (4) None of the above

39. राज्य लोकसेवा आयोगाचा अध्यक्षाना कार्यकाल किती वर्षे असतो ?

- (1) नेमणूकीपासून 05 वर्षे      (2) नेमणूकीपासून 06 वर्षे  
(3) नेमणूकीपासून 04 वर्षे      (4) नेमणूकीपासून 02 वर्षे

The duration of the Chairperson of the State Public Service Commission is \_\_\_\_\_.

- (1) 05 years from the appointment      (2) 06 years from the appointment  
(3) 04 years from the appointment      (4) 02 years from the appointment

40. युरोजोनमधील पिग्ज (PIGS) असे कोणत्या देशांना संबोधले जाते ?

- (1) पोलंड, इटली, ग्रीस, स्पेन      (2) पोर्तुगाल, आयरलँड, ग्रीस, स्वीडन  
(3) पोर्तुगाल, इटली, जर्मनी, सुरीनाम      (4) पोर्तुगाल, इटली, ग्रीस, स्पेन

Which countries of the Eurozone are described as "PIGS" ?

- (1) Poland, Italy, Greece, Spain      (2) Portugal, Ireland, Greece, Sweden  
(3) Portugal, Italy, Germany, Surinam      (4) Portugal, Italy, Greece, Spain

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

41. 110 वे घटनादुरुस्ती विधेयक कशा बाबत आहे ?

- (1) संसद विधीमंडळात महिलांना 33% आरक्षण
- (2) स्थानिक स्वराज्य संस्थांमध्ये महिलांना 50% आरक्षण
- (3) लोकपाल
- (4) लोकायुक्त

What does the 110<sup>th</sup> Constitution Amendment Bill deal with ?

- (1) 33% reservation for women in State legislature
- (2) 50% reservation for women in local self government institution
- (3) Lokpal
- (4) Lokayukta

42. खालीलपैकी कोणता देश 'ब्रिक्स' (BRICS) या जागतिक संघटनेचा सदस्य नाही ?

- (1) ब्राझील
- (2) रशिया
- (3) चीन
- (4) इंडोनेशिया

Which of the following countries is not a member of the world organisation 'BRICS' ?

- (1) Brazil
- (2) Russia
- (3) China
- (4) Indonesia

43. जागतिक आरोग्य संघटनेने नुकतेच 2012 मध्ये भारताचे नाव \_\_\_\_\_ ग्रस्त देशांच्या यादीतून वगळले आहे.

- (1) बर्ड फ्ल्यू
- (2) कॅन्सर
- (3) पोलिओ
- (4) हेपटाइटिस 'बी'

World Health Organisation (WHO) has omitted India's name from the list of \_\_\_\_\_ endemic countries recently in 2012.

- (1) Bird Flu
- (2) Cancer
- (3) Polio
- (4) Hepatitis 'B'

44. 2011 ची सार्क परिषद कोठे पार पडली ?

- (1) बांगलादेश
- (2) मालदीव
- (3) श्रीलंका
- (4) भूतान

Where was the 2011 SAARC Conference held ?

- (1) Bangladesh
- (2) Maldives
- (3) Srilanka
- (4) Bhutan

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

45. 2012 मधील महिला एकेरी फ्रेंच ओपनच्या अंतिम फेरीची विजेती कोण ?

- |                       |                     |
|-----------------------|---------------------|
| (1) सानिया मिर्जा     | (2) सेरेना विल्यम्स |
| (3) मारिया शारापोव्हा | (4) व्हिनस विल्यम्स |

Who is the winner of Women's Singles finals in French Open 2012 ?

- |                     |                     |
|---------------------|---------------------|
| (1) Sania Mirza     | (2) Serena Williams |
| (3) Maria Sharapova | (4) Venus Williams  |

46. जून 2012 मधील 'युरो चषक फुटबॉल' स्पर्धेचे विजेतेपद कोणत्या देशाने जिंकले ?

- |           |          |             |                 |
|-----------|----------|-------------|-----------------|
| (1) स्पेन | (2) इटली | (3) ब्राझील | (4) अर्जेन्टीना |
|-----------|----------|-------------|-----------------|

Which of the following countries won the 'Euro Trophy Football' championship held in June 2012 ?

- |           |           |            |               |
|-----------|-----------|------------|---------------|
| (1) Spain | (2) Italy | (3) Brazil | (4) Argentina |
|-----------|-----------|------------|---------------|

47. ग्रामपंचायतीकडे गावच्या लोकसंख्येच्या (दरडोई 1 रु.) इतका महसूल जमा होत नसेल तर जी उर्वरित रक्कम राज्य सरकारकडून दिली जाते त्याला काय म्हणतात ?

- |                  |                     |
|------------------|---------------------|
| (1) बदली अनुदान  | (2) समानीकरण अनुदान |
| (3) ग्राम अनुदान | (4) कृषी अनुदान     |

If adequate revenue is not collected by Gram Panchayat according to the population (per capita Re. 1) of the village then rest of the revenue is given by the state government by way of \_\_\_\_\_.

- |                    |                        |
|--------------------|------------------------|
| (1) Transfer grant | (2) Samanikaran grant  |
| (3) Rural grant    | (4) Agricultural grant |

48. टाटा ग्रुप कंपनीच्या चेअरमनपदी इतक्यात कोणाची निवड करण्यात आली आहे ?

- |                    |                     |
|--------------------|---------------------|
| (1) सायरस मिस्त्री | (2) पी. बाटलीवाला   |
| (3) सायरस भरुचा    | (4) होशांग मिस्त्री |

Who has been selected as the Chairman of the Tata Group of Companies recently ?

- |                    |                    |
|--------------------|--------------------|
| (1) Cyrus Mistry   | (2) P. Batliwala   |
| (3) Cyrus Bharucha | (4) Hoshang Mistry |

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

49. आंतरराष्ट्रीय क्रिकेट परिषदेचे (ICC) चे आठवे अध्यक्ष म्हणून जून 2012 मध्ये कोणाची निवड झाली ?

- |                      |                 |
|----------------------|-----------------|
| (1) डेव्हिड रिचर्डसन | (2) अॅलन इसाक   |
| (3) अॅलन बॉर्डर      | (4) ग्रेग चॅपेल |

Who has been appointed as the eighth Chairman of the International Cricket Council (ICC) in June 2012 ?

- |                      |                  |
|----------------------|------------------|
| (1) David Richardson | (2) Alan Isaac   |
| (3) Allan Border     | (4) Greg Chappel |

50. जानेवारी 2012 मध्ये महात्मा गांधी शांतता पुरस्कार कोणास देण्यात आला ?

- |                   |                |
|-------------------|----------------|
| (1) अँग सान सू की | (2) बरॅक ओबामा |
| (3) मेदवेदेव      | (4) दलाई लामा  |

Who was awarded with the Mahatma Gandhi Peace Prize in January 2012 ?

- |                     |                  |
|---------------------|------------------|
| (1) Aung San Suu Ki | (2) Barack Obama |
| (3) Medvedev        | (4) Dalai Lama   |

51. What are the sources of power for the MSEDCL ?

- |             |                              |
|-------------|------------------------------|
| (a) Thermal | (b) Hydro                    |
| (c) Gas     | (d) Non-conventional sources |

- |                   |                   |                   |                        |
|-------------------|-------------------|-------------------|------------------------|
| (1) (b), (c), (d) | (2) (a), (b), (d) | (3) (a), (b), (c) | (4) (a), (b), (c), (d) |
|-------------------|-------------------|-------------------|------------------------|

52. What are the principle objectives of the National Environmental Policy ?

- |                               |   |
|-------------------------------|---|
| (a) Inter-generational equity | (b) Environmental governance                          |
| (c) Intra-generational equity | (d) Conservation of critical Environmental resources. |

- |                   |                   |                   |                        |
|-------------------|-------------------|-------------------|------------------------|
| (1) (a), (c), (d) | (2) (b), (c), (d) | (3) (a), (b), (d) | (4) (a), (b), (c), (d) |
|-------------------|-------------------|-------------------|------------------------|

53. Who is the Chairman of the district level committee for rehabilitation of the sick units ?

- |                                |                                |
|--------------------------------|--------------------------------|
| (1) District Collector         | (2) General Manager DIC        |
| (3) Jt. Director of Industries | (4) Dy. Director of Industries |

54. For mega projects, the quantum of incentive within approved limit will be decided by the high power committee under the chairmanship of \_\_\_\_\_.

- |  |
|--|
| (1) Chief Minister, Govt. of Maharashtra                       |
| (2) Principal Secretary (Industries), Govt. of Maharashtra     |
| (3) Chief Secretary Govt. of Maharashtra                       |
| (4) Additional Chief Secretary (Finance), Govt. of Maharashtra |

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK



55. IDR Act 1951 came into force on \_\_\_\_\_.

- (1) 8<sup>th</sup> May 1951 (2) 8<sup>th</sup> May 1952  
(3) 12<sup>th</sup> April 1951 (4) 22<sup>nd</sup> November 1951

56. As per Industrial Policy following districts are not considered as a 'no industry district' ?

- (a) Hingoli (b) Gondia (c) Godchiroli (d) Washim  
(1) (a), (b) (2) (b), (d) (3) (a), (c) (4) (a), (b), (c), (d)

57. Prime Minister Employment generation programme is implemented through following Institutions :

- (a) 27 Public Sector Banks  
(b) Regional Rural Banks  
(c) Co-operative Banks, private sector scheduled commercial banks approved by state level task force committee.  
(d) Small Industries Development Bank of India (SIDBI)  
(1) (a), (c) (2) (a), (b), (d) (3) (a), (b), (c) (4) (a), (b), (c), (d)

58. When was the MSSIDC established ?

- (1) 1962 (2) 1964 (3) 1961 (4) 1967

59. Enterprise engaged in the manufacturing or production of goods pertaining to any industry specified in the first schedule of IDR Act 1951, where the investment in plant and machinery is more than 25 lakh rupees but does not exceed 500 lakh rupees, is defined as :

- (1) micro enterprise (2) small enterprise  
(3) medium enterprise (4) large enterprise

60. Where are the regional offices of SICOM ?

- (a) Pune (b) Nashik (c) Nagpur (d) New Delhi  
(1) (a), (b), (d) (2) (a), (b), (c) (3) (b), (c), (d) (4) (a), (b), (c), (d)

61. 'Special Economic Zone' (SEZ) :

- (a) is a deemed foreign territory (b) houses only 100% exporting units.

Which of the above statements is/are correct ?

- (1) (a) and (b) (2) (a) (3) (b) (4) None of above

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

62. Maharashtra State Electricity Distribution Company Ltd. came into existence on \_\_\_\_\_.

- (1) 6<sup>th</sup> June 2005 (2) 12<sup>th</sup> October 2005  
 (3) 3<sup>rd</sup> April 2005 (4) 20<sup>th</sup> November 2005

63. What is the existing state policy about providing employment to local persons in industries ?

- (1) Every industrial enterprise has to provide min. 80% employment in supervisory category and 100% in the other to local persons.  
 (2) Every industrial enterprise has to provide min. 50% employment in supervisory category and 80% in the other to local persons.  
 (3) Every industrial enterprise has to provide min. 80% employment in supervisory category and 80% in the other to local persons.  
 (4) Every industrial enterprise has to provide min. 50% employment in supervisory category and 80% overall to local persons.

64. Which of the following are the activities of the MIDC ?

- (a) Acquisition and disposal of land  
 (b) Provision of infrastructure facilities  
 (c) Provision of financial assistance to industries  
 (d) Provision of services  
 (1) (b), (c), (d) (2) (a), (c), (d) (3) (a), (b), (c) (4) (a), (b), (d)

65. For which regions of Maharashtra the regional development corporations are established ?

- (a) Konkan (b) Rest of Maharashtra  
 (c) Western Maharashtra (d) Marathwada  
 (1) (a), (b), (d) (2) (a), (b), (c) (3) (b), (c), (d) (4) (a), (c), (d)

66. According to MSMED Act 2006, the micro service enterprise should have investment in plant and machinery less than \_\_\_\_\_.

- (1) 25 lacs (2) 30 lacs (3) 10 lacs (4) 50 lacs

67. Consent given by MPCB to industries includes :

- (a) Consent to transfer industrial unit (b) Consent to establish industrial unit  
 (c) Consent to operate industrial unit (d) Consent to close industrial unit  
 (1) (a) and (d) (2) (a) and (b) (3) (b) and (c) (4) (b) and (d)

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

68. What are the activities of KVIB ?

- (a) Khadi Stores (b) Promotion of Rural Artisans.  
(c) Village development (d) Village industries estates  
(1) (a) and (b) (2) (a), (b), (c) (3) (b), (c), (d) (4) (b) and (d)

69. The criteria for eligibility of an industrial undertaking as 'mega project' in A & B zone is \_\_\_\_\_.

- (1) Investment more than Rs. 750 Cr. or direct employment of minimum 1500 persons  
(2) Direct employment generation for more than 2000 persons  
(3) Investment of minimum 1000 Cr.  
(4) Both (1) and (2)

70. What is the section 10 of the IDR Act 1951 concerned about ?

- (1) Registration of new industrial undertakings  
(2) Licensing of new industrial undertakings  
(3) Revocation and amendment of licences in certain cases  
(4) Registration of existing industrial undertakings

71. Under the provisions of Indian Electricity Rules 1956 rule no. 47 A, a customer should seek permission for setting up electricity generating set of a capacity above \_\_\_\_\_.

- (1) 8 kW (2) 10 kW (3) 12 kW (4) 15 kW

72. Following are the activities of MSSIDC to assist MSME \_\_\_\_\_.

- (a) Marketing Assistance (b) Infrastructure Development  
(c) Handicraft Development (d) Raw Material Supply  
(1) (a), (b), (d) (2) (a), (c), (d)  
(3) (b), (c), (d) (4) (a), (b), (c)

73. Any electrical accident in connection with generation, transmission, supply and use of energy which has resulted in loss of human being or an animal life shall be reported within 24 hrs. to :

- (1) Concerned Engineer, MSEDCL (2) Electrical Inspector  
(3) Licensed Electrical Contractor (4) Both (1) and (2)

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

74. What does the Industries (Development and Regulation) Act 1951 provide for ?

- (1) Development, regulation and control of industries
  - (2) Development, regulation of certain industries
  - (3) Development, regulation and promotion of industries
  - (4) None of the above
- 

75. Who is the Chairman of the task force committee under revised seed money scheme ?

- (1) District Collector
  - (2) CEO, Zilla Parishad
  - (3) General Manager, DIC
  - (4) None of the above
- 

76. The maximum allowable limit that a measurement may vary from the true value, is called \_\_\_\_\_.

- (1) permissible error
  - (2) expected error
  - (3) range of error
  - (4) least error
- 

77. Search engine provides following search operations except :

- (1) Mouse Search
  - (2) Index Search
  - (3) Keyword Search
  - (4) Directory Search
- 

78. Match the following :

- |                       |                       |
|-----------------------|-----------------------|
| (A) Protein structure | (1) Northern blot     |
| (B) DNA transfer      | (2) Frederick Sanger  |
| (C) DNA sequencing    | (3) Ramachandran Plot |
| (D) RNA transfer      | (4) Southern bolt     |

- (1) (A)-(2) (B) - (4) (C) - (3) (D) - (1)
  - (2) (A)-(3) (B) - (1) (C) - (2) (D) - (4)
  - (3) (A)-(3) (B) - (4) (C) - (2) (D) - (1)
  - (4) (A)-(2) (B) - (1) (C) - (3) (D) - (4)
- 

79. Mad cow disease is caused by a :

- (1) bacterium
  - (2) virus
  - (3) viroid
  - (4) prion
- 

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

80. In Information Technology field, the word "http" indicates \_\_\_\_\_.
- (1) Service Providers (2) Main tool bar  
(3) Network (4) Web browser
- 
81. Which type of software allows your computer to communicate with another computer ?
- (1) Analytical (2) Systems (3) Special purpose (4) Browser
- 
82. In n-type semiconductor, added impurity is :
- (1) pentavalent (2) tetravalent (3) trivalent (4) bivalent
- 
83. In JAVA, which component is machine dependent ?
- (1) JAVA source file (2) JAVA virtual machine  
(3) JAVA class (4) All of the above
- 
84. In a given air vapour mixture, the relative humidity \_\_\_\_\_.
- (1) Increases with increase in temperature  
(2) Decreases with increase in temperature  
(3) Decreases with decrease in temperature  
(4) Has no relation with increase or decrease in temperature
- 
85. Which of the following is a data processing unit ?
- (1) Hard disk (2) RAM (3) Floppy disk (4) CPU
- 
86. "Nylon - 6" is manufactured from :
- (1) caprolactum  
(2) adipic acid and hexamethylene diamine  
(3) maleic anhydride and hexamethylene diamine  
(4) sebasic acid and hexamethylene diamine
- 
87. \_\_\_\_\_ involves the use of High Power laser beam to burn microscopic spots in an aluminium disk's surface coating.
- (1) Magnetic tape (2) Floppy disk  
(3) Hard disk (4) Optical disks
- 

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

P.T.O.

88. A ceiling fan uses \_\_\_\_\_.
- (1) Split phase motor (2) Capacitor start and capacitor run motor  
(3) Universal motor (4) Capacitor start motor
- 
89. A flow in which each liquid particle has a definite path and their paths do not cross each other is called :
- (1) Steady flow (2) Uniform flow  
(3) Stream line flow (4) Turbulent flow
- 
90. The nature of chemical bonding in graphite is \_\_\_\_\_.
- (1) covalent (2) ionic  
(3) co-ordinate (4) Metallic
- 
91. The force acting on current carrying conductor kept in magnetic field is given by \_\_\_\_\_.
- (1) Fleming's left hand rule (2) Fleming's right hand rule  
(3) Kirchhoff's law (4) Ohm's law
- 
92. Kerosene has following carbon composition \_\_\_\_\_.
- (1)  $C_5 - C_{10}$  (2)  $C_{10} - C_{18}$  (3)  $C_{20} - C_{30}$  (4)  $C_{16} - C_{30}$
- 
93. The prime mover which converts hydraulic energy into mechanical energy is known as :
- (1) turbine (2) pump (3) fan (4) motor
- 
94. Major operations in the manufacture of steel ball bearing are given below :
- (A) Oil lapping (B) Cold heading  
(C) Annealing (D) Hardening  
(E) Rough Grinding
- State the correct sequence of these operations :
- (1) (C), (B), (D), (A), (E) (2) (C), (B), (A), (D), (E)  
(3) (B), (C), (D), (E), (A) (4) (B), (C), (E), (D), (A)
- 

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

95. The working of a radiation pyrometer is based on the following \_\_\_\_\_.
- (1) Wien's law (2) Kirchoff's law  
(3) Stefan-Boltzaman law (4) Seebeck effect
- 
96. Which of the following is not an Electronic Device ?
- (1) Transducer (2) Rectifier (3) Thermistor (4) Rotameter
- 
97. The technique of obtaining images of a part of the body on photographic film uses \_\_\_\_\_.
- (1) X-ray (2) gamma ray  
(3) microwaves (4) all of the above
- 
98. In order to reverse the direction of rotation of a 3-phase induction motor \_\_\_\_\_.
- (1) Motor should be replaced  
(2) Supply voltage should be cut off in one phase  
(3) Power factor should be changed  
(4) Any two phases should be interchanged
- 
99. An electromagnetic wave is a \_\_\_\_\_.
- (1) mechanical wave  
(2) transverse wave  
(3) longitudinal wave  
(4) combination of longitudinal wave and a transverse wave
- 
100. Which statement is true of 'Solar Energy' ?
- (1) It is exhaustible  
(2) It is conventional and inexhaustible  
(3) It is non conventional and inexhaustible  
(4) It is conventional
- 
101. The nuclei having the same mass number (A) are called \_\_\_\_\_.
- (1) Isobars (2) Isotopes (3) Isotones (4) Isomers
- 

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

102. Energy of electron in the first orbit of Hydrogen atom is  $-13.6$  eV. It's energy in the third orbit will be :

- (1)  $-3.4$  eV      (2)  $-1.51$  eV      (3)  $-4.53$  eV      (4)  $-9.07$  eV
- 

103. A copper wire of Young's modulus  $12 \times 10^{10}$  N/m<sup>2</sup> has a cross sectional area  $1$  mm<sup>2</sup>. The force required to increase its length by  $1\%$  is :

- (1)  $12$  N      (2)  $120$  N      (3)  $1200$  N      (4)  $12 \times 10^{10}$  N
- 

104. Let  $n_e$  and  $n_n$  be the number of electrons and holes respectively in a semiconductor. Then \_\_\_\_\_.

- (1)  $n_n > n_e$  in an intrinsic semiconductor  
(2)  $n_n < n_e$  in an intrinsic semiconductor  
(3)  $n_n = n_e$  in an intrinsic semiconductor  
(4)  $n_n = n_e$  in an extrinsic semiconductor
- 

105. Breakdown voltage of Zener diode depends on \_\_\_\_\_.

- (1) applied voltage across the diode  
(2) doping level of P and N regions of the diode  
(3) current passing through the diode  
(4) size of the diode
- 

106. Will the Boyles Law  $p \propto \frac{1}{V}$  be obeyed by a balloon, if pressure is increased by blowing air inside it ?

- (1) Yes, unconditionally  
(2) No, unconditionally  
(3) Yes, if only temperature of the system is constant  
(4) Yes, if mass and temperature of the system are constant
- 

107. Dimensions of Surface Tension are \_\_\_\_\_.

- (1)  $M^1L^1T^1$       (2)  $M^2L^{-1}T^2$       (3)  $M^{-1}L^2T^{-2}$       (4)  $M^1L^0T^{-2}$
- 

108. For the constructive interference to take place between two monochromatic light waves of wavelength  $\lambda$ , the path difference should be :

- (1)  $(2n - 1)\frac{\lambda}{4}$       (2)  $(2n - 1)\frac{\lambda}{2}$       (3)  $(2n + 1)\frac{\lambda}{2}$       (4)  $n\lambda$
- 

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK



109. Iron pipes are often coated with a layer of zinc to prevent corrosion. This process is termed as :

- |                   |                    |
|-------------------|--------------------|
| (1) annealing     | (2) galvanization  |
| (3) vulcanization | (4) polymerization |
- 

110. The shape of the interhalogen compound  $IF_7$  is :

- |                         |                         |
|-------------------------|-------------------------|
| (1) Octahedral          | (2) Tetrahedral         |
| (3) Pentagonalpyramidal | (4) Trigonalbipyramidal |
- 

111. Match the following blocks and their electronic configurations :

- |             |  |
|-------------|--|
| (a) S-block | (I) $(n-1)d^{1-10}, ns^1 \text{ or } 2$  |
| (b) P-block | (II) $(n-2)f^{1-14}, (n-1)d^{0,1}, ns^2$ |
| (c) d-block | (III) $ns^1 \text{ to } ns^2$            |
| (d) F-block | (IV) $ns^1 np^1 \text{ to } ns^2 np^6$   |

- |     |       |       |       |      |
|-----|-------|-------|-------|------|
|     | (a)   | (b)   | (c)   | (d)  |
| (1) | (III) | (IV)  | (I)   | (II) |
| (2) | (I)   | (III) | (IV)  | (II) |
| (3) | (I)   | (II)  | (III) | (IV) |
| (4) | (IV)  | (III) | (II)  | (I)  |
- 

112. If the radius ratio in a crystal lattice is 0.225, then the co-ordination number of a cation is :

- |       |       |       |       |
|-------|-------|-------|-------|
| (1) 6 | (2) 2 | (3) 4 | (4) 8 |
|-------|-------|-------|-------|
- 

113. Match the following :

- |                             |                                |
|-----------------------------|--------------------------------|
| (a) Distillation            | (I) Gasoline from crude oil    |
| (b) Sublimation             | (II) Table salt from sea water |
| (c) Crystallisation         | (III) Purified camphor         |
| (d) Fractional distillation | (IV) Pure water from sea       |

- |     |       |       |       |       |
|-----|-------|-------|-------|-------|
|     | (a)   | (b)   | (c)   | (d)   |
| (1) | (I)   | (II)  | (III) | (IV)  |
| (2) | (II)  | (I)   | (IV)  | (III) |
| (3) | (III) | (IV)  | (I)   | (II)  |
| (4) | (IV)  | (III) | (II)  | (I)   |
- 

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

P.T.O.

114. Which compound gives haloform tests ?

- |              |                   |
|--------------|-------------------|
| (1) Acetone  | (2) 3 - Pentanone |
| (3) Propanal | (4) Methanol      |
- 

115. How are the different fractions obtained by refining of Petroleum used ?

- (a) The uncondensed gaseous hydrocarbons contain propane and butane are used in LPG.
- (b) Kerosene is used in Jet engines and turbines.
- (c) Diesel oil is used in aeroplanes.
- (d) Petroleum coke is used as fuel.

Which of the statements given above is/are correct ?

- |                      |                      |
|----------------------|----------------------|
| (1) (a) only         | (2) (a) and (b) only |
| (3) (a), (b) and (c) | (4) (a), (b) and (d) |
- 

116. Two or more substances having the same crystal structure are said to be \_\_\_\_\_.

- |                 |                  |
|-----------------|------------------|
| (1) Isomorphous | (2) Polymorphous |
| (3) Amorphous   | (4) All of these |
- 

117. Bird Flu, one of the poultry diseases is caused by :

- |              |           |           |               |
|--------------|-----------|-----------|---------------|
| (1) Bacteria | (2) Virus | (3) Fungi | (4) Protozoan |
|--------------|-----------|-----------|---------------|
- 

118. Which gas is liberated as a by-product during photosynthesis ?

- |                    |                     |                    |                    |
|--------------------|---------------------|--------------------|--------------------|
| (1) N <sub>2</sub> | (2) CO <sub>2</sub> | (3) O <sub>2</sub> | (4) O <sub>3</sub> |
|--------------------|---------------------|--------------------|--------------------|
- 

119. Which of the following is true for all nucleotides ?

- (1) They contain ribose, a phosphate and a nitrogenous base
- (2) They contain a pentose, a phosphate and a nitrogenous base
- (3) They contain a deoxyribose, a phosphate and a nitrogenous base
- (4) They are double stranded and antiparallel
- 

120. Which type of solid waste can be put into deep pits and be left for natural breakdown ?

- |                       |                    |
|-----------------------|--------------------|
| (1) Recyclable        | (2) Bio-degradable |
| (3) Non-biodegradable | (4) All            |
- 

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

121. Which of the following is an example of genetic disease ?

- (1) Night blindness (2) Haemophilia  
(3) Leprosy (4) Allergy
- 

122. According to Darwin, Evolution means :

- (1) Formation of new species (2) Formation of complex organism  
(3) Formation of simple organism (4) Descent with modifications
- 

123. If the speed of a car to go uphill is 20 km/hr and to go down hill is 30 km/hr then the average speed of the car is : (in km/hr)

- (1) 23 (2) 24 (3) 25 (4) None
- 

124. If A is any non-singular square matrix of order 3, then A (adjA) is equal to :

- (1) I (2) O (3) |A|I (4) |A|<sup>3</sup>I
- 

125.  $\lim_{x \rightarrow 0} \frac{x \cdot 2^x - x}{1 - \cos x} = \underline{\hspace{2cm}}?$

- (1) log2 (2) 2 log2 (3)  $\frac{1}{2} \log 2$  (4)  $\frac{1}{2}$
- 

126. The value of  $\sum_{r=1}^{10} (2r + 1)$  is :

- (1) 100 (2) 120 (3) 111 (4) 110
- 

127. If  $f(x) = x + |x|$  then the value of  $f(1) + f(-1)$  is :

- (1) 0 (2) 2 (3) 4 (4) None
- 

128. What is the probability that a leap year selected has 53 Sundays ?

- (1)  $\frac{1}{7}$  (2)  $\frac{2}{7}$  (3)  $\frac{3}{7}$  (4) None
- 

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

129. Evaluate :  $\lim_{x \rightarrow 1} \frac{x^2 + 5x - 6}{x - 1}$

- (1) 7 (2) 8 (3) 6 (4) None
- 

130. The general solution of the differential equation :  $x(1+y^2)dx + y(1+x^2)dy = 0$  is :

- (1)  $\log [(1+x^2) + (1+y^2)] = C$  (2)  $(1+x^2)(1+y^2) = C$   
(3)  $(1+x^2) = C(1+y^2)$  (4)  $(1+y^4) = C(1+x^2)$
- 

131. Which of the following categories of sick units fall under the purview of BIFR ?

- (a) Micro (b) Medium (c) Small (d) Large  
(1) (a) and (c) (2) (b) and (d) (3) (c) and (d) (4) (a) and (d)
- 

132. The funding pattern for implementation of co-operative industrial estate scheme is :

- (1) 20 : 25 : 55 (2) 15 : 20 : 65 (3) 20 : 20 : 60 (4) 10 : 20 : 70
- 

133. What is the frequency of Zilla Udyog Mitra Committee meetings as per norms ?

- (1) Once in two months (2) Once in three months  
(3) Once in six months (4) Every month
- 

134. Where are the headquarters of the Western Maharashtra Development Corporation (WMDC) located ?

- (1) Mumbai (2) Pune (3) Kolhapur (4) Ahmednagar
- 

135. What is considered as focal point for rural industrialisation ?

- (1) State (2) Taluka (3) District (4) Region
- 

136. Where is the first Udyog Setu established in Maharashtra ?

- (1) Mumbai (2) Pune (3) Nashik (4) Thane
- 

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

137. Advisory services to SME sector of SICOM are :

- (a) Structuring of financial needs for projects
- (b) Site selection services
- (c) Marketing related support for Industry/Service sector
- (d) Promote government purchase programme

(1) (a), (b)                      (2) (a), (b), (c)                      (3) (b), (c), (d)                      (4) (a), (b), (c), (d)

---

138. No. of regional and sub-regional offices under the Directorate of Industries are :

(1) 8                                      (2) 6                                      (3) 7                                      (4) 5

---

139. Which of the following schemes are implemented by the District Industries Centre at present ?

- (a) PMEGP                      (b) PMRY                      (c) SMS                      (d) DIC loan scheme
- (1) (a), (b), (c)                      (2) (a), (b), (d)                      (3) (a), (c), (d)                      (4) (b), (c), (d)
- 

140. ASIDE scheme of GOI implemented by the Directorate of Industries is \_\_\_\_\_.

- (1) To promote exports by creating export infrastructure
  - (2) To develop the infrastructure for industrial development
  - (3) To give subsidy for exports
  - (4) To develop export awareness
- 

141. The member secretary of the "Industry Facilitation Council" established by Govt. of Maharashtra is :

- (1) Jt. Director of Industries of the region
  - (2) General Manager, DIC
  - (3) Jt. Director, Industrial Health and Safety
  - (4) ADD. Director of Industries
- 

142. Wooden and Steel furniture workshop of KVIB is located at :

(1) Umred                      (2) Gokul Shirgaon                      (3) Pune                      (4) Mahabaleshwar

---

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK

P.T.O.

143. Who is the Chairman of the Zilla Udyog Mitra Committee at the District level ?

- |                          |                          |
|--------------------------|--------------------------|
| (1) CEO Zilla Parishad   | (2) Collector            |
| (3) General Manager, DIC | (4) Additional Collector |

144. Which schemes does Export Facilitation Branch of Directorate of Industries Implement ?

- (a) Scheme of subsidy for export from Maharashtra  
(b) State Export Award Scheme  
(c) Space rent subsidy scheme for participation in international exhibition  
(d) Scheme of reimbursement of travelling expenses for participation in international exhibition
- (1) (a) and (b)      (2) (a) and (c)      (3) (b) and (d)      (4) (b) and (c)

145. Which of the following statements is true ?

- (A) MERC was established on 15th August 1999 under the Electricity Regulatory Commission Act, 1998.  
(B) The Electricity Regulatory Commission is continued as provided under section 82 of Electricity Act, 2003.
- (1) only statement (A) is true      (2) only statement (B) is true  
(3) Both statements (A) & (B) are true      (4) Neither (A) nor (B) is true

146. The main function of Directorate of Industries, Govt. of Maharashtra is :

- (1) to formulate policies for the development of industries in the state  
(2) to formulate and implement policy for economic development.  
(3) to implement various policies for development and promotion of industries  
(4) Both (1) and (3)

147. "Maharashtra Small Scale Industries Development Corporation" which is wholly owned by Govt. of Maharashtra was set up as a Pvt. Ltd. Company on :

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| (1) 19 <sup>th</sup> October 1962 | (2) 1 <sup>st</sup> May 1960     |
| (3) 1 <sup>st</sup> August 1962   | (4) 15 <sup>th</sup> August 1965 |

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148. At which locations of the following are regional offices of the Directorate of Industries located ?

- (a) Pune (b) Nanded (c) Aurangabad (d) Nagpur  
(1) (a), (b), (d) (2) (a), (c), (d) (3) (a), (b), (c) (4) (b), (c), (d)
- 

149. Under PSI 2007 Divisional Co-ordination Committee between implementing agency and Sales Tax department, is headed by :

- (1) Development Commissioner (Industries)  
(2) Regional Joint Director of Industries  
(3) Regional Joint Commissioner (Sales Tax)  
(4) Regional Deputy Director of Industries
- 

150. Present Cadre strength of Joint Director of Industries is \_\_\_\_\_.

- (1) 9 (2) 10 (3) 11 (4) 12
- 

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### सूचना — (पृष्ठ 1 वरून पुढे....)

- (8) प्रश्नपुस्तिकेमध्ये विहित केलेल्या विशिष्ट जागीच कच्चे काम (रफ वर्क) करावे. प्रश्नपुस्तिकेव्यतिरिक्त उत्तरपत्रिकेवर वा इतर कागदावर कच्चे काम केल्यास ते कॉपी करण्याच्या उद्देशाने केले आहे, असे मानले जाईल व त्यानुसार उमेदवारावर शासनाने जारी केलेल्या “परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचे अधिनियम-82” यातील तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.
- (9) सदर प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपल्यानंतर उमेदवाराला ही प्रश्नपुस्तिका स्वतःबरोबर परीक्षाकक्षाबाहेर घेऊन जाण्यास परवानगी आहे. मात्र परीक्षा कक्षाबाहेर जाण्यापूर्वी उमेदवाराने आपल्या उत्तरपत्रिकेचा भाग-1 समवेक्षकाकडे न विसरता परत करणे आवश्यक आहे.

### नमुना प्रश्न

प्र. क्र. 201. आधुनिक विचारसरणीनुसार शिक्षणाच्या प्रक्रियेतील केंद्रबिंदु कोण ?

- |                   |                |
|-------------------|----------------|
| (1) शिक्षण संस्था | (2) शिक्षक     |
| (3) विद्यार्थी    | (4) अभ्यासक्रम |

ह्या प्रश्नाचे योग्य उत्तर “(3) विद्यार्थी” असे आहे. त्यामुळे या प्रश्नाचे उत्तर “(3)” होईल. यास्तव खालीलप्रमाणे प्रश्न क्र. 201 समोरील उत्तर-क्रमांक “③” हे वर्तुळ पूर्णपणे छायंकित करून दाखविणे आवश्यक आहे.

प्र. क्र. 201. ① ② ● ④

अशा पद्धतीने प्रस्तुत प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाचा तुमचा उत्तरक्रमांक हा तुम्हाला स्वतंत्ररीत्या पुरविलेल्या उत्तरपत्रिकेवरील त्या त्या प्रश्नक्रमांकासमोरील संबंधित वर्तुळ पूर्णपणे छायंकित करून दाखवावा. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.

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